

in the midst of all the Colours is the confine of green and blue. And hence I seem to collect that the thick-
nesses of the Air between the Glasses there, where the
Ring is successively made by the limits of the five prin-
cipal Colours (red, yellow, green, blue, violet) in order
(that is, by the extreme red, by the limit of red and
yellow in the middle of the orange, by the limit of
yellow and green, by the limit of green and blue, by
the limit of blue and violet in the middle of the in-
digo, and by the extreme violet) are to one another
very nearly as the six lengths of a Chord which sound
the notes in a sixth Major, *sol, la, mi, fa, sol, la*. But
it agrees something better with the Observation to say,
that the thicknesses of the Air between the Glasses there,
where the Rings are successively made by the limits of
the seven Colours, red, orange, yellow, green, blue, in-
digo, violet in order, are to one another as the Cube-
roots of the Squares of the eight lengths of a Chord,
which sound the notes in an eighth, *sol, la, fa, sol, la,
mi, fa, sol*; that is, as the Cube-roots of the Squares
of the Numbers, $1, \frac{8}{27}, \frac{5}{6}, \frac{3}{4}, \frac{2}{3}, \frac{3}{5}, \frac{9}{16}, \frac{1}{2}$.

O B S. XV.

These Rings were not of various Colours like those
made in the open Air, but appeared all over of that
prismatic Colour only with which they were illu-
minated. And by projecting the prismatic Colours
immediately upon the Glasses, I found that the Light
which fell on the dark Spaces which were between
the coloured Rings, was transmitted through the
Glasses without any variation of Colour. For on a
white

white Paper placed
the same Colour was
of the bigness of
thence the origin
That the Air betw
rious thickness, i
and in others to
lour (as you may
and in the same
where it transmits

The Squares of
by any prismatic
gression as in the f
of the sixth Circle
and viewed almost
of an Inch, or a li
servation.

The precedent
thin medium, term
or Water compres
that follow are set
medium thin'd w
Muscovy-glass, Bu
substances terminat